



FORM PTO-1449 FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0190005/BJD/SJE	APPLICATION NO. 10/050,898
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
/MH/	AN3	EP 0 259 149 B1	12/15/1993	Europe			Yes No
	AO3	EP 0 385 610 B1	03/16/1994	Europe			Yes No
	AP3	WO 94/06472 A1	03/31/1994	WIPO			Yes X No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	81	Baba, T.W., et al., "Pathogenicity of Live, Attenuated SIV After Mucosal Infection of Neonatal Macaques," <i>Science</i> 267:1820-1825, American Association for the Advancement of Science (1995)
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	AM4	EP 0 283 505 B1	07/06/1994	Europe			Yes No
	AN4	WO 94/15585 A1	07/21/1994	WIPO			Yes No
	AO4	EP 0 425 082 A1	04/26/1995	Europe			Yes No
	AP4	WO 96/05293 A1	02/22/1996	WIPO			Yes No

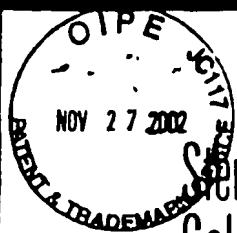
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↓	AT	82	Connor, R.I., et al., "Immunological and Virological Analyses of Persons Infected by Human Immunodeficiency Virus Type 1 while Participating in Trials of Recombinant gp120 Subunit Vaccines," J. Virol. 72:1552-1576, American Society for Microbiology (1998)

EXAMINER /Michelle Horning/

DATE CONSIDERED
05/24/2007

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Sherne Kessler
Goldstein Fox

H GP 1645

TO: DIRECTOR, U.S. PATENT & TRADEMARK OFFICE
FROM: SHERNE KESSLER GOLDSTEIN FOX
SUBJECT: U.S. UTILITY PATENT APPLICATION
NO. 10/050,898; FILED: JANUARY 18, 2002
FOR: MOLECULAR ANTIGEN ARRAY
INVENTORS: RENNER ET AL.
OUR REF: 1700.0190005/JAG/BJD/SJE

November 27, 2002

WRITER'S DIRECT NUMBER:
(202) 789-5525

INTERNET ADDRESS:
BRIAND@SKGF.COM

Commissioner for Patents
Washington, D.C. 20231

Art Unit 1645

Re: U.S. Utility Patent Application
Appl. No. 10/050,898; Filed: January 18, 2002
For: **Molecular Antigen Array**
Inventors: Renner *et al.*
Our Ref: 1700.0190005/JAG/BJD/SJE

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Second Supplemental Information Disclosure Statement;
2. Form PTO-1449 listing the cited documents (seventy-eight (78) pages);
3. Copies of the cited documents; and
4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents
November 27, 2002
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono
Attorney for Applicants
Registration No. 42,473

JAG/BJD/SJE:krh

Enclosures

SKGF_DC1:79264.1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

RENNER *et al.*

Appl. No. 10/050,898

Filed: January 18, 2002

For: **Molecular Antigen Array**

Confirmation No. 7794

Art Unit: 1645

Examiner: *To be assigned*

Atty. Docket: 1700.0190005/JAG/BJD/SJE

Second Supplemental Information Disclosure Statement

Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. This Information Disclosure Statement is supplemental to Information Disclosure Statements that were electronically filed on **November 20, 2002** and **November 26, 2002**. A copy of each document is also provided.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following, in regards to non-English language document AT37 cited on Form PTO 1449:

Documents **AT37**, Kozlovskaya, T.M., *et al.*, "Formation of capsid-like structures as a result of the expression of a cloned envelope protein gene from RNA-containing bacteriophage fr," *Dokl. Akad. Nauk. SSSR* 287:452-455, (1986) is in the Russian language. An English language abstract is attached as Document **AR38**.

The Examiner is referred to the following related, co-pending patent applications:

U.S. Patent Application No. 09/449,631, filed November 30, 1999, inventors Renner *et al.*, submitted herewith as **AR77**;

U.S. Patent Application No. 10/050,902, filed January 18, 2002, inventors Renner *et al.*, submitted herewith as **AS77**.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the

effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono
Attorney for Applicants
Registration No. 42,473

Date: Nov. 27, 2002

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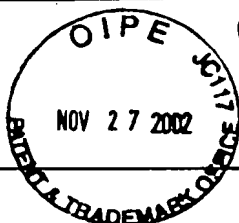
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/MH/	AL1	WI 92,11291 A1	07/09/1992	WIFO			Yes No
	AM1	WI 96,30523 A2	10/03/1996	WIFO			Yes No
	AN1	WI 97,31948 A1	09/04/1997	WIFO			Yes No
	AO1	WI 98,15631 A1	04/16/1998	WIFO			Yes No
	AP1	WI 00/32227 A2	06/08/2000	WIFO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AF	1	Abraham, J.M., et al., "An invertible element of DNA controls phase variation of type 1 fimbriae of <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 82:5724-5727, National Academy Press (1985)
	AS	1	Abraham, S.N., et al., "Glycerol-Induced Unraveling of the Tight Helical Conformation of <i>Escherichia coli</i> Type 1 Fimbriae," <i>J. Bacteriol.</i> 174:5145-5148, American Society for Microbiology (1992)
	AT	1	Adhin, M.R., et al., "Nucleotide Sequence from the ssRNA Bacteriophage JP34 Resolves the Discrepancy between Serological and Biophysical Classification," <i>Virology</i> 170:238-242, Academic Press, Inc. (1989)

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/MH/	AI2	WO 00/59928 A1	10/12/2000	WIPO			Yes No
	AM2	WO 00/33955 A1	04/27/2000	WIPO			Yes No
	AN2	WO 01/52284 A2	08/30/2001	WIPO			Yes No
	AO2	WO 01/85208 A2	11/15/2001	WIPO			Yes No
	AP						Yes No

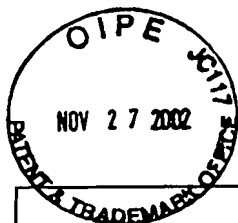
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	AR	2	Aguzzi, A., "Prion diseases, blood and the immune system: concerns and reality," <i>Haematologica</i> 85:3-10, Il Pensiero Scientifico Editore (January 2000)
	AS	2	Ansel, K.M., et al., "In Vivo-activated CD4 T Cells Upregulate CXCR Chemokine Receptor 5 and Reprogram Their Response to Lymphoid Chemokines," <i>J. Exp. Med.</i> 190:1123-1134, The Rockefeller University Press (1999)
	AT	2	Ansel, K.M., et al., "A chemokine-driven positive feedback loop organizes lymphoid follicles," <i>Nature</i> 406:309-314, Nature Publishing Group (July 2000)

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/MH/	AF	3	Antonyamy, M.A., et al., "Evidence for a Role of IL-17 in Organ Allograft Rejection: IL-17 Promotes the Functional Differentiation of Tendritic Cell Progenitors," <i>J. Immunol.</i> 162:577-584, The American Association of Immunologists (1999).
	AS	3	Arenberg, D.A., et al., "The murine CC chemokine, 6C-kine, inhibits tumor growth and angiogenesis in a human lung cancer SCID mouse model," <i>Cancer Immunol. Immunother.</i> 49:587-592, Springer-Verlag (January 2001)
	AT	3	Arnon, R., et al., "A mimotope peptide-based vaccine against <i>Schistosoma mansoni</i> : synthesis and characterization," <i>Immunology</i> 101:555-562, Blackwell Science, Ltd. (December 2000)

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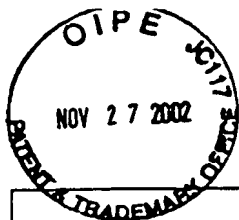
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/MH/	AR	4	Bachmann, M.F., and Zinkernagel, R.M., "The influence of virus structure on antibody responses and virus serotype formation," <i>Immunol. Today</i> 17:553-558, Elsevier Science, Ltd. (1996)
/MH/	AS	4	Bachmann, M.F., and Zinkernagel, R.M., "Neutralizing Antiviral B Cell Responses," <i>Annu. Rev. Immunol.</i> 15:235-270, Annual Reviews, Inc. (1997)
/MH/	AT	4	Bachmann, M.F., <i>et al.</i> , "TRANCE, a Tumor Necrosis Factor Family Member Critical for CD40 Ligand-independent T Helper Cell Activation," <i>J. Exp. Med.</i> 189:1025-1031, The Rockefeller University Press (1999)

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/MH/	AR	<u>5</u>	Banerjee, R.R., and Lazar, M.A., "Dimerization of Resistin and Resistin-like Molecules Is Determined by a Single Cysteine," <i>J. Biol. Chem.</i> 276:25970-25973, The American Society for Biochemistry and Molecular Biology, Inc. (July 2001)
/MH/	AS	<u>5</u>	Bard, F. <i>et al.</i> , "Peripherally administered antibodies against amyloid β -peptide enter the central nervous system and reduce pathology in a mouse model of Alzheimer disease," <i>Nat. Med.</i> 6:916-919, Nature Publishing Company (August 2000)
/MH/	AT	<u>5</u>	Bass, S., and Yang, M., "Expressing cloned genes in <i>Escherichia coli</i> ," in <i>Protein Function: A Practical Approach</i> , 2nd ed., Creighton, T.E., ed., IRL Press, Oxford, Great Britain, pp. 29-55 (1997)

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/MH/	AS	5	Biasele, C.J., and Millar, D.B., "Studies on Triton X-100 detergent micelles," <i>Biophys. Chem.</i> 3:355-361, North-Holland Publishing Company (1975)
/MH/	AT	5	Bleul, C.C., <i>et al.</i> , "The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry," <i>Nature</i> 332:829-833, Nature Publishing Group (1996)

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/MH/	AR	2	Blomfield, I.C., <i>et al.</i> , "Type 1 Fimbriation and <i>fimE</i> Mutants of <i>Escherichia coli</i> K-12," <i>J. Bacteriol.</i> 173:5298-5307, American Society for Microbiology (1991)
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/MH/	AT	2	Boder, E.T., and Wittrup, K.D., "Yeast Surface Display for Directed Evolution of Protein Expression, Affinity, and Stability," <i>Methods Enzymol.</i> 328:430-444, Academic Press (October 2000)

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	AM						Yes No
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/MH/	AT	8	Erinton, Jr., C.C., "The structure, function, synthesis and genetic control of bacterial pili and a molecular model for DNA and RNA transport in gram negative bacteria," <i>Trans. N.Y. Acad. Sci.</i> 27:1003-1054, New York Academy of Sciences (1965)

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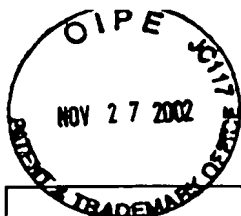
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/MH/	AT	12	Clark, H.F., et al., "Comparative Characterization of a C-Type Virus-Producing Cell Line (VSW) and a Virus-Free Cell Line (VH2) From <i>Vipera russelli</i> ," <i>J. Natl. Cancer Inst.</i> 51:645-657, Oxford University Press (1973)

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	AL					Yes No
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	AN						Yes No
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/MH/	AR	15	Davis, N.L., <i>et al.</i> , "In Vitro Synthesis of Infectious Venezuelan Equine Encephalitis Virus RNA from a cDNA Clone: Analysis of a Viable Deletion Mutant," <i>Virology</i> 171:189-204, Academic Press (1989)
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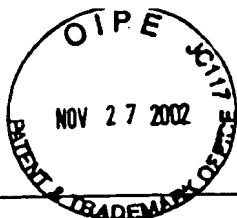
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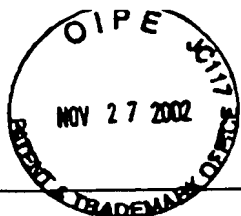
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	AM						Yes No
	AN						Yes No
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	AP						Yes No

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/MH/	AF	21	Fujiwara, K., <i>et al.</i> , "Novel preparation method of immunogen for hydrophobic haptens, enzyme immunoassay for daunomycin and adriamycin," <i>J. Immunol. Methods</i> 45:195-203, Elsevier/North-Holland Biomedical Press (1981)
/MH/	AS	21	Gally, D.L., <i>et al.</i> , "Environmental Regulation of the <i>fim</i> Switch Controlling Type 1 Fimbrial Phase Variation in <i>Escherichia coli</i> K-12: Effects of Temperature and Media," <i>J. Bacteriol.</i> 175:6186-6193, American Society for Microbiology (1993)
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FORM PTO-1449 <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.3190005/JAG/BJD/SJE	APPLICATION NO. 10/050,898
	APPLICANT RENNER <i>et al.</i>	
	FILING DATE January 16, 2002	GCUP 1645

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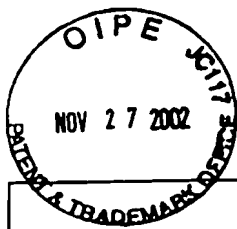
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	AP						Yes No

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/MH/	AR	21	Gherardi, E. <i>et al.</i> , "A single-step procedure for cloning and selection of antibody-secreting hybridomas," <i>J. Immunol. Methods</i> 126: 51-58, Elsevier (1990)
/MH/	AS	22	Golmohammadi, R., <i>et al.</i> , "The crystal structure of bacteriophage QB at 3.5Å resolution," <i>Structure</i> 4:543-554, Current Biology, Ltd. (1996)
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FORM PTO-1449

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0190005/JAG/BJD/SJEAPPLICATION NO.
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RENNER *et al.*FILING DATE
January 18, 2002GROUP
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/MH/	AF	<u>23</u>	Hanes, J., <i>et al.</i> , "Picomolar affinity antibodies from a fully synthetic naive library selected and evolved by ribosome display," <i>Nat. Biotechnol.</i> 18:1287-1292, Nature Publishing Company (December 2000)
/MH/	AS	<u>23</u>	Hanson, M.S., <i>et al.</i> , "Purification of the <i>Escherichia coli</i> Type 1 Pilin and Minor Pilus Proteins and Partial Characterization of the Adhesin Protein," <i>J. Bacteriol.</i> 170:3350-3358, American Society for Microbiology (1988)
/MH/	AT	<u>23</u>	Hanson, M.S., and Brinton, Jr., C.C., "Identification and characterization of <i>E. coli</i> type-1 pilus tip adhesion protein," <i>Nature</i> 332:265-268, Nature Publishing Group (1988)

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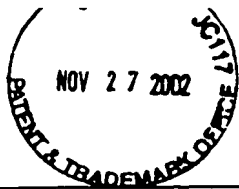
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/MH/	AK	24	Harrison, J.L., <i>et al.</i> , "Screening of Phage Antibody Libraries," <i>Methods Enzymol.</i> 267:83-109, Macmillan Publishers, Ltd. (1996)
/MH/	AS	24	Haslam, D.B., <i>et al.</i> , "The amino-terminal domain of the P-pilus adhesin determines receptor specificity," <i>Mol. Microbiol.</i> 14:399-409, Blackwell Scientific Publications (1994)
/MH/	AT	24	Hedrick, J.A., and Zlotnik, A., "Identification and Characterization of a Novel β Chemokine Containing Six Conserved Cysteines," <i>J. Immunol.</i> 159: 1589-1593, The American Association of Immunologists (1997)

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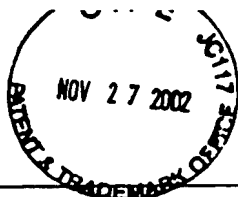
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/MH/	AS	25	Holmgren, A., and Bränden, C.-I., "Crystal structure of chaperone protein PapD reveals an immunoglobulin fold," <i>Nature</i> 342:248-251, Nature Publishing Group (1989)
/MH/	AT	26	Holmgren, S.J., et al., "The PapG adhesin of uropathogenic <i>Escherichia coli</i> contains separate regions for receptor binding and for the incorporation into the pilus," <i>Proc. Nat. Acad. Sci. USA</i> 86:4357-4361, National Academy Press (1989)

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/MH/	AR	27	Hultgren, S.J., <i>et al.</i> , "PapD and superfamily of periplasmic immunoglobulin-like pilus chaperones," <i>Adv. Prot. Chem.</i> 44:99-123, Academic Press, Inc. (1993)
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/MH/	AT	27	Hultgren, S.J., <i>et al.</i> , "Bacterial Adhesins and Their Assembly," in <i>Escherichia coli and Salmonella</i> , Neidhardt, F.C., <i>et al.</i> , eds., ASM Press, Washington, D.C. pp. 2730-2756 (1996)

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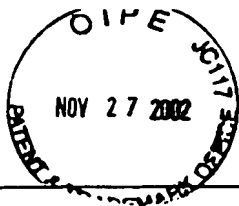
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/MH/	AR	28	Humbles, A.A., et al., "Kinetics of Eotaxin Generation and Its Relationship to Eosinophil Accumulation in Allergic Airways Disease: Analysis in a Guinea Pig Model In Vivo," J. Exp. Med. 186:601-612, The Rockefeller University Press (1997)
/MH/	AS	28	Hung, D.L., et al., "Molecular basis of two subfamilies of immunoglobulin-like chaperones," EMBO J. 15:3792-3805, Oxford University Press (1996)
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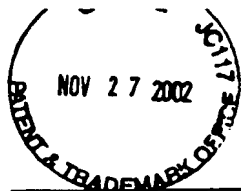
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/MH/	AT	29	Jacob-Dubuisson, F., <i>et al.</i> , "PapD chaperone function in pilus biogenesis depends on oxidant and chaperone-like activities of DsbA," <i>Proc. Natl. Acad. Sci. USA</i> 91:11552-11556, National Academy Press (1994)

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/MH/	AF	30	Jacob-Dubuisson, F., et al., "Initiation of assembly and association of the structural elements of a bacterial pilus depend on two specialized tip proteins," <i>EMBO J.</i> 12:837-847, Oxford University Press (1993)
/MH/	AS	30	Jacob-Dubuisson, F., et al., "Chaperone-assisted Self-assembly of Pili Independent of Cellular Energy," <i>J. Biol. Chem.</i> 269:12447-12455, The American Society for Biochemistry and Molecular Biology, Inc. (1994)
/MH/	AT	30	Jiang, X., et al., "Norwalk Virus Genome Cloning and Characterization," <i>Science</i> 250:1580-1583, American Association for the Advancement of Science (1990)

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/MH/	AP	31	Jones, C.H., <i>et al.</i> , "FimC is a periplasmic PapD-like chaperone that directs assembly of type 1 pili in bacteria," <i>Proc. Natl. Acad. Sci. USA</i> 90:8397-8401, National Academy Press (1993)
/MH/	AS	31	Jones, C.H., <i>et al.</i> , "FimH adhesin of type 1 pili is assembled into a fibrillar tip structure in the Enterobacteriaceae," <i>Proc. Natl. Acad. Sci. USA</i> 92:2081-2085, National Academy Press (1995)
/MH/	AT	31	Josien, R., <i>et al.</i> , "TRANCE, a Tumor Necrosis Factor Family Member, Enhances the Longevity and Adjuvant Properties of Dendritic Cells In Vivo," <i>J. Exp. Med.</i> 191: 495-501, The Rockefeller University Press (February 2000)

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	APPLICANT RENNER et al.	
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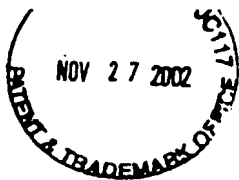
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/MH/	AT	<u>32</u>	Fastelein, R.A. et al., "Effect of the sequence upstream from the ribosome-binding site on the yield of protein from the cloned gene for phage MS2 coat protein," <i>Gene</i> 23:245-254, Elsevier (1993)

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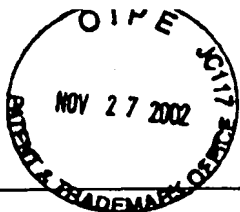
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/MH/	AP	33	Fim, K.J., <i>et al.</i> , "Inhibition of vascular endothelial growth factor-induced angiogenesis suppresses tumour growth <i>in vivo</i> ," <i>Nature</i> 362:841-844, Nature Publishing Group (1993)
/MH/	AS	33	Fim, K.-H., <i>et al.</i> , "A Cysteine-rich Adipose Tissue-specific Secretory Factor Inhibits Adipocyte Differentiation," <i>J. Biol. Chem.</i> 276:11252-11256, The American Society for Biochemistry and Molecular Biology, Inc. (April 2001)
/MH/	AT	33	Klemm, P., "The <i>fimA</i> gene encoding the type-1 fimbrial subunit of <i>Escherichia coli</i> . Nucleotide sequence and primary structure of the protein," <i>Euro. J. Biochem.</i> 143:395-399, Blackwell Science, Ltd. (1984)

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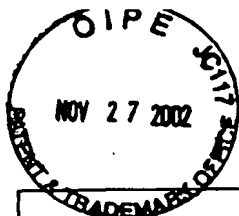
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/MH/	AR	34	Klemm, P., and Christiansen, G., "Three <i>fim</i> genes required for the regulation of length and mediation of adhesion of <i>Escherichia coli</i> type 1 fimbriae," <i>Mol. Gen. Genet.</i> 208:439-445, Springer-Verlag (1987)
/MH/	AS	34	Klemm, P., <i>et al.</i> , "The major subunit of <i>Escherichia coli</i> type 1 fimbriae is not required for D-mannose-specific adhesion," <i>Mol. Microbiol.</i> 4:553-559, Blackwell Scientific Publications (1990)
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FORM PTC-1449

SECOND SUPPLEMENTAL
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1700.0190005/JAG/BJD/SJEAPPLICATION NO.
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RENNER et al.FILING DATE
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U.S. PATENT DOCUMENTS

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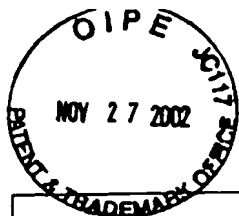
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/MH/	AT	<u>35</u>	Kodama, S., et al., "Characterization of recombinant murine interleukin 5 expressed in Chinese hamster ovary cells," <i>Glycobiology</i> 2:419-427, Oxford University Press (1992)

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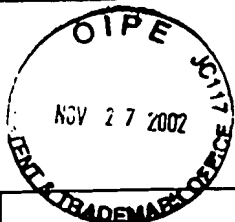
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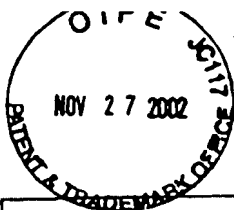
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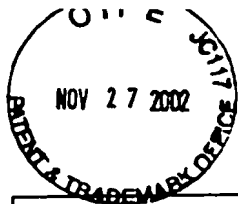
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	APPLICANT FENNER <i>et al.</i>	
	FILING DATE January 18, 2002	GROUP 1645

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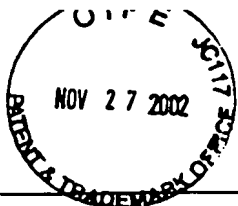
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/MH/	AF	39	Funimoto, D.Y., <i>et al.</i> , "High-level production of murine interleukin-5 (IL-5) utilizing recombinant baculovirus expression. Purification of the rIL-5 and its use in assessing the biologic role of IL-5 glycosylation," <i>Cytokine</i> 3:224-230, W.B. Saunders Company (1991)
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1645

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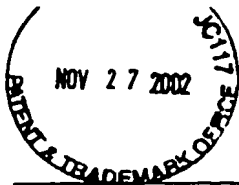
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/MH/	AP	40	Lee, K.H., et al., "Two-Dimensional Electrophoresis of Proteins as a Tool in the Metabolic Engineering of Cell Cycle Regulation," <i>Biotech. Bioeng.</i> 50:336-340, John Wiley & Sons, Inc. (1996)
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	APPLICANT RENNER <i>et al.</i>	
	FILING DATE January 18, 2002	GROUP 1645

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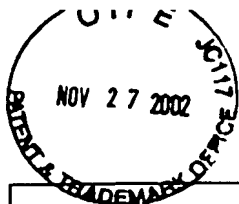
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/MH/	AF	<u>41</u>	Liljeström, P., and Garoff, H., "A new generation of animal cell expression vectors based on the semliki forest virus replicon," <i>Bio.technology</i> 9:1356-1361, Nature Publishing Company (1991)
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FORM PTO-1449

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1645**U.S. PATENT DOCUMENTS**

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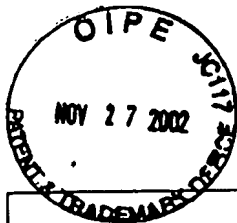
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/MH/	AP	<u>42</u>	Lin, E.Y., <i>et al.</i> , "Colony-stimulating Factor 1 Promotes Progression of Mammary Tumors to Malignancy," <i>J. Exp. Med.</i> 193:727-739, The Rockefeller University Press (March 2001)
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/MH/	AT	<u>42</u>	Lo-Man, R., <i>et al.</i> , "A recombinant virus-like particle system derived from parvovirus as an efficient antigen carrier to elicit a polarized Th1 immune response without adjuvant," <i>Eur. J. Immunol.</i> 28:1401-1407, Wiley-VCH Verlag GmbH (1998)

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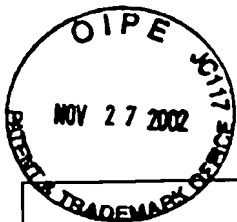
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/MH/	AF	43	López, O., <i>et al.</i> , "Direct formation of mixed micelles in the solubilization of phospholipid liposomes by Triton X-100," <i>FEBS Lett.</i> 426:314-318, Elsevier (1998)
/MH/	AS	43	Lowe, M.A., <i>et al.</i> , "Immunoelectron Microscopic Analysis of Elongation of Type 1 Fimbriae in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 169:157-163, American Society for Microbiology (1987)
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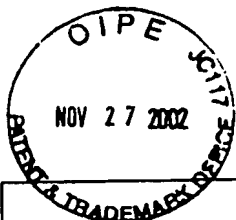
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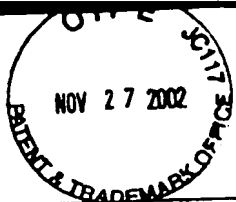
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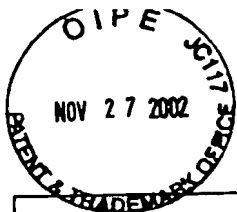
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/MH/	AR	46	Matsumoto, M., et al., "Role of Lymphotoxin and the Type 1 TNF Receptor in the Formation of Germinal Centers," <i>Science</i> 271:1289-1291, American Association for the Advancement of Science (1996)
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FORM PTO-1449

SECOND SUPPLEMENTAL
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1700.0193005/JAG/BJD/SJEAPPLICATION NO.
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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/MH/	AR	48	Mikulowska, A., <i>et al.</i> , "Macrophage Migration Inhibitory Factor Is Involved in the Pathogenesis of Collagen Type II-Induced Arthritis in Mice," <i>J. Immunol.</i> 158:5514-5517, The American Association of Immunologists (1997)
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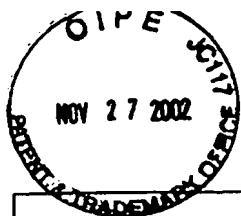
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/MH/	AT	<u>50</u>	Murphy, K.P. Jr., <i>et al.</i> , "Expression of Human Interleukin-17 in <i>Pichia pastoris</i> : Purification and Characterization," <i>Protein Expr. Purif.</i> 12:208-214, Academic Press (1998)

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/MH/	AP	52	Meirynck, S., et al., "A universal influenza A vaccine based on the extracellular domain of the M2 protein," <i>Nat. Med.</i> 5:1157-1163, Nature Publishing Company (1999)
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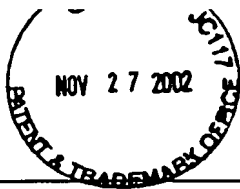
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/MH/	AS	<u>53</u>	Gberlin, E., <i>et al.</i> , "The CXC chemokine SDF-1 is the ligand for LESTR/fusin and prevents infection by T-cell-line-adapted HIV-1," <i>Nature</i> 382:833-835, Nature Publishing Group (1996)
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	APPLICANT RENNER <i>et al.</i>	
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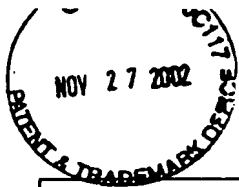
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/MH/	AF	<u>54</u>	Olszewska, W., et al., "Protection against Measles Virus-Induced Encephalitis by Anti-mimotope Antibodies: The Role of Antibody Affinity," <i>Virology</i> 272:98-105, Academic Press (June 2000)
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	AP						Yes No

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/MH/	AF	55	O'Shea, E.K., <i>et al.</i> , "Evidence That the Leucine Zipper Is a Coiled Coil," <i>Science</i> 243:538-542, American Association for the Advancement of Science (1989)
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/MH/	AT	55	Pandit, J., <i>et al.</i> , "Three-dimensional Structure of Dimeric Human Recombinant Macrophage Colony-Stimulating Factor," <i>Science</i> 258:1358-1362, American Association for the Advancement of Science (1992)

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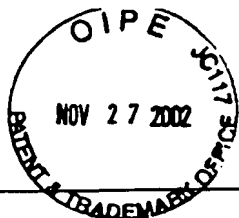
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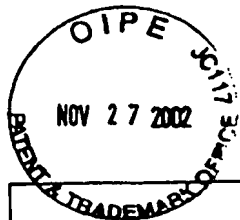
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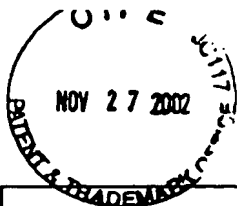
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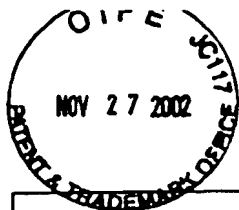
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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/MH/	AR	59	Roesch, P.L., and Blomfield, I.C., "Leucine alters the interaction of the leucine-responsive regulatory protein (Lrp) with the <i>fim</i> switch to stimulate site-specific recombination in <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 27:751-761, Blackwell Science, Ltd. (1998)
/MH/	AS	59	Rohrer, A.E., et al., "Isolation and Chemical Characterization of Alzheimer's Disease Paired Helical Filament Cytoskeletons: Differentiation from Amyloid Plaque Core Protein," <i>J. Cell Biol.</i> 107:2703-2716, The Rockefeller University Press (1988)
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FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0190005/JAG/BJD/SJE	APPLICATION NO. 10,050,898
	APPLICANT RENNER <i>et al.</i>	
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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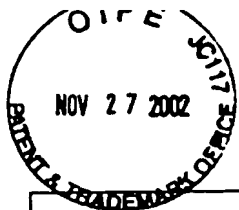
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	AM						Yes No
	AN						Yes No
	AO						Yes No
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/MH/	AP	60	Fomagnani, S., "The Th1/Th2 paradigm," <i>Immunol. Today</i> 18:263-266, Elsevier Science, Ltd. (1997)
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/MH/	AT	60	Rusconi, S., <i>et al.</i> , "In vitro inhibition of HIV-1 by Met-SDF-13 alone or in combination with antiretroviral drugs," <i>Antivir. Ther.</i> 5:199-204, International Medical Press (September 2000)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
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	AO						Yes No
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/MH/	AR	<u>62</u>	Schenk, D., <i>et al.</i> , "Immunization with amyloid- β attenuates Alzheimer-disease-like pathology in the PDAPP mouse," <i>Nature</i> 400:173-177, Nature Publishing Group (1999)
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/MH/	AT	<u>62</u>	Selkoe, D.J., "Translating cell biology into therapeutic advances in Alzheimer's disease," <i>Nature</i> 399:A23-A31, Nature Publishing Group (1999)

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	AM						Yes No
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/MH/	AT	63	Soto, H., et al., "The CC chemokine 6Ckine binds the CXCR3 chemokine receptor CXCR3," <i>Proc. Natl. Acad. Sci. USA</i> 95:8205-8210, National Academy Press (1998)

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/MH/	AF	64	Soto, G.E., et al., "Periplasmic chaperone recognition motif of subunits mediates quaternary interactions in the pilus," <i>EMBO J.</i> 17:6155-6167, Oxford University Press (1998)
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/MH/	AT	64	Steppan, C.M., et al., "The hormone resistin links obesity to diabetes," <i>Nature</i> 409:307-312, Nature Publishing Group (January 2001)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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/MH/	AF	65	Stollar, V., "Togaviruses in Cultured Arthropod Cells," in <i>The Togaviruses. Biology, Structure, Replication</i> , Schlesinger, R.W., ed., Academic Press, Inc. New York, N.Y., pp.583-621 (1980)
/MH/	AS	65	Strauss, J., and Strauss, E.G., "The Alphaviruses: Gene Expression, Replication, and Evolution," <i>Microbiol. Rev.</i> 58:491-562, American Society for Microbiology (1994)
/MH/	AT	65	Striker, R.T., et al., "Stable Fiber-forming and Nonfiber-forming Chaperone-Subunit Complexes in Pilus Biogenesis," <i>J. Biol. Chem.</i> 269:12233-12239, The American Society for Biochemistry and Molecular Biology, Inc. (1994)

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	APPLICANT RENNER et al.	
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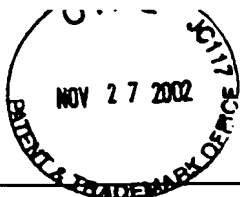
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/MH/	AP	65	Sturchler-Pierrat, C., et al., "Two amyloid precursor protein transgenic mouse models with Alzheimer disease-like pathology," <i>Proc. Natl. Acad. Sci. USA</i> 94:13287-13292, National Academy Press (1997)
/MH/	AS	65	Sun, H.-W., et al., "Crystal structure at the 2.6-Å resolution of human macrophage migration inhibitory factor," <i>Proc. Natl. Acad. Sci. USA</i> 93:5191-5196, National Academy Press (1996)
/MH/	AT	66	Tang, J.-L., et al., "Interleukin-17 antagonism inhibits acute but not chronic vascular rejection," <i>Transplantation</i> 72:348-350, Lippincott Williams & Wilkins (July 2001)

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FORM PTO-1449 <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190005/JA3/BJD/SJE	APPLICATION NO. 10/050,898
	APPLICANT RENNER <i>et al.</i>	
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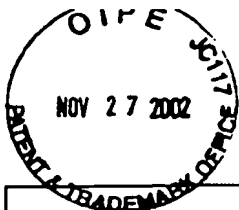
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	AN						Yes No
	AO						Yes No
	AP						Yes No

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/MH/	AF	<u>67</u>	Tanimori, H., <i>et al.</i> , "Enzyme immunoassay of neocarzinostatin using β -galactosidase as label," <i>J. Pharm. Dyn.</i> 4:812-819, Pharmaceutical Society of Japan (1981)
/MH/	AS	<u>67</u>	Teixeira, M.M., <i>et al.</i> , "Chemokine-induced Eosinophil Recruitment. Evidence of a Role for Endogenous Eotaxin in an In Vivo Allergy Model in Mouse Skin," <i>J. Clin. Invest.</i> 100:1657-1666, The American Society for Clinical Investigation, Inc. (1997)
/MH/	AT	<u>67</u>	Tewari, R., <i>et al.</i> , "Neutrophil Activation by Nascent FimH Subunits of Type I Fimbriae Purified from the Periplasm of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 269:3009-3015, The American Society for Biochemistry and Molecular Biology, Inc. (1993)

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1700.0130005/JAG/BJD/SJEAPPLICATION NO.
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	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/MH/	AP	68	Teunissen, M.B.M., <i>et al.</i> , "Interleukin-17 and Interferon- γ Synergize in the Enhancement of Proinflammatory Cytokine Production by Human Keratinocytes," <i>J. Invest. Dermatol.</i> 111:645-649, The Society for Investigative Dermatology, Inc. (1998)
/MH/	AS	68	Thanassi, D.G., <i>et al.</i> , "The PapC usher forms an oligomeric channel: Implications for pilus biogenesis across the outer membrane," <i>Proc. Natl. Acad. Sci. USA</i> 95:3146-3151, National Academy Press (1998)
/MH/	AT	68	De Togni, P., <i>et al.</i> , "Abnormal Development of Peripheral Lymphoid Organs in Mice Deficient in Lymphotoxin," <i>Science</i> 264:703-707, American Association for the Advancement of Science (1994)

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/MH/	AT	69	Ulrich, R., et al., "Core particles of hepatitis B virus as carrier for foreign epitopes," <i>Adv. Virus Res.</i> 50:141-182, Academic Press (1998)

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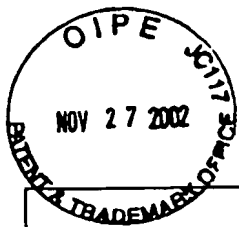
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/MH/	AT	70	Walse, B., et al., "Transferred nuclear Overhauser effect spectroscopy study of a peptide from the PapG pilus subunit bound by the <i>Escherichia coli</i> PapD chaperone," <i>FEBS Lett.</i> 412:115-120, Elsevier Science B.V. (1997)

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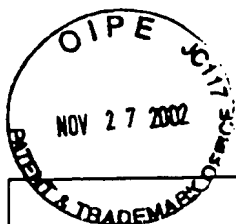
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/MH/	AT	72	Wu, Q., et al. "Reversal of Spontaneous Autoimmune Insulinitis in Nonobese Diabetic Mice by Soluble Lymphotoxin Receptor," <i>J. Exp. Med.</i> 193:1327-1332, The Rockefeller University Press (June 2001)

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FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO..
1700.0190005/JAG/BJD/SJEAPPLICATION NO..
10,050,898APPLICANT
RENNER *et al.*FILING DATE
January 18, 2002GROUP
1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/MH/	AR	<u>73</u>	Wuttke, M., <i>et al.</i> , "Structural Characterization of Human Recombinant and Bone-derived Bone Sialoprotein," <i>J. Biol. Chem.</i> 276:36839-36848, The American Society for Biochemistry and Molecular Biology, Inc. (2001)
/MH/	AS	<u>73</u>	Wynne, S.A., <i>et al.</i> , "The Crystal Structure of the Human Hepatitis B Virus Capsid," <i>Mol. Cell</i> 3:771-780, Cell Press (1999)
/MH/	AT	<u>73</u>	Xiong, C., <i>et al.</i> , "Sindbis Virus: An Efficient, Broad Host Range Vector for Gene Expression in Animal Cells," <i>Science</i> 243:1186-1191, American Association for the Advancement of Science (1989)

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FORM PTO-1449 <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.5190005/JAG/BJD/SJE	APPLICATION NO. 10/050,898
	APPLICANT RENNER <i>et al.</i>	
	FILING DATE January 18, 2002	GROUP 1645

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	AO						Yes No
	AP						Yes No

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/MH/	AR	<u>74</u>	Yao, Z., <i>et al.</i> , "Human IL-17: A Novel Cytokine Derived from T Cells," <i>J. Immunol.</i> 155:5483-5486, The American Association of Immunologists (1995)
/MH/	AS	<u>74</u>	Yao, Z., <i>et al.</i> , "Molecular characterization of the human interleukin (IL)-17 receptor," <i>Cytokine</i> 9:794-800, Academic Press, Ltd. (1997)
/MH/	AT	<u>74</u>	Yone, K., <i>et al.</i> , "Epitopic Regions for Antibodies against Tumor Necrosis Factor α ," <i>J. Biol. Chem.</i> 270:19509-19515, The American Society for Biochemistry and Molecular Biology, Inc. (1995)

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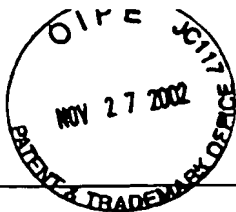
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/MH/	AR	75	Yuan, T-T., <i>et al.</i> , "Subtype-Independent Immature Secretion and Subtype-Dependent Replication Deficiency of a Highly Frequent, Naturally Occurring Mutation of Human Hepatitis B Virus Core Antigen," <i>J. Virol.</i> 73:10122-10128, American Society for Microbiology (1999)
/MH/	AS	75	Cang, M., <i>et al.</i> , "Production of Recombinant Proteins in Chinese Hamster Ovary Cells Using A Protein-Free Cell Culture Medium," <i>Bio/Technology</i> 13:389-392, Nature Publishing Company (1995)
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FORM PTC-1449

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1700.0130005/JAG/BJD/SJEAPPLICATION NO.
10/050,898APPLICANT
RENNER *et al.*FILING DATE
January 18, 2002GROUP
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/MH/	AF	<u>76</u>	Zimmermann, N., <i>et al.</i> , "Murine Eotaxin-2: A Constitutive Eosinophil Chemokine Induced by Allergen Challenge and IL-4 Overexpression," <i>J. Immunol.</i> 165:5839-5846, The American Association of Immunologists (November 2000)
/MH/	AS	<u>75</u>	Siolkowska, M., <i>et al.</i> , "High Levels of IL-17 in Rheumatoid Arthritis Patients: IL-15 Triggers In Vitro IL-17 Production Via Cyclosporin A-Sensitive Mechanism," <i>J. Immunol.</i> 164:2832-2838, The American Association of Immunologists (March 2000)
/MH/	AT	<u>75</u>	Zuercher, A.W., <i>et al.</i> , "Oral anti-IgE immunization with epitope-displaying phage," <i>Eur. J. Immunol.</i> 30:128-135, Wiley-Vch Verlag GmbH (January 2000)

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FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0190005/JAG/BJD/SJE	APPLICATION NO. 10/050,898
	APPLICANT RENNER <i>et al.</i>	
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

/MH/	AP	77	Copy of co-pending U.S. Application No. 09/449,631, inventors Renner <i>et al.</i> , filed November 30, 1999.
/MH/	AS	77	Copy of co-pending U.S. Application No. 10/050,902, inventors Renner <i>et al.</i> , filed January 18, 2002.
/MH/	AT	77	Fehr, T., <i>et al.</i> , "T cell-independent type I antibody response against B cell epitopes expressed repetitively on recombinant virus particles," <i>Proc. Natl. Acad. Sci. USA</i> 95:9477-9481, National Academy Press (1998)

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FORM PTO-1449

**SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.
1700.0190005/JAG/BJD/SJE

APPLICATION NO.
10/050,893

APPLICANT
RENNER *et al.*

FILING DATE
January 18, 2002

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/MH/	AR	<u>78</u>	Frenkel, D., <i>et al.</i> , "Generation of auto-antibodies towards Alzheimer's disease vaccination," <i>Vaccine</i> 19:2615-2619, Elsevier Science, Ltd. (March 2001)
/MH/	AS	<u>78</u>	International Search Report for International Application No. PCT/IB02/00166 mailed on October 29, 2002.
/MH/	AT	<u>78</u>	International Search Report for International Application No. PCT/IB02/00168 mailed on November 4, 2002.

EXAMINER /Michelle Horning/

DATE CONSIDERED 05/24/2007

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